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## NOTICE OF ALLOWANCE AND FEE(S) DUE

166

7590

02/19/2010

EXAMINER

WANG, CHUN CHENG

ART UNIT

PAPER NUMBER

1796

DATE MAILED: 02/19/2010

YOUNG & THOMPSON 209 Madison Street Suite 500 Alexandria, VA 22314

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564.837	04/17/2006	Tomoko Hongo	8062-1034	3419

TITLE OF INVENTION: METAL COLLOID SOLUTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/19/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

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YOUNG & TH 209 Madison Str Suite 500 Alexandria, VA	reet	/2010	I I St	Cer nereby certify that the	tificate ( is Fee(s)	of Mailing or Transn  Transmittal is being	
Alexandra, vA	22314						(Depositor's name)
			F				(Signature) (Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/564,837 TTLE OF INVENTION	04/17/2006 : METAL COLLOID SO	DLUTION	Tomoko Hongo			8062-1034	3419
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nonprovisional	NO	\$1510	\$300	\$0	•	\$1810	05/19/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7			
WANG, CHUN CHENG 1796		1796	516-097000	_			
. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, alterna (2) the name of a sin registered attorney of 2 registered patent at	printing on the patent front page, list names of up to 3 registered patent attorneys nts OR, alternatively, name of a single firm (having as a member a red attorney or agent) and the names of up to tered patent attorneys or agents. If no name is no name will be printed.  1  2  3			
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	ess an assignee is identi h in 37 CFR 3.11. Comp GNEE		data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assign n assignment. 'Y and STATE OR C	OUNTR	RY)	cument has been filed for
a. The following fee(s):  Issue Fee  Publication Fee (N		ermitted)	b. Payment of Fee(s): (Pl A check is enclosed Payment by credit c	ease first reapply ar  . ard. Form PTO-2038 by authorized to char	is attac	ously paid issue fee sined.	hown above)
a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	b. Applicant is no lo	-			
note: The Issue Fee and the rest as shown by the I	ecords of the United Sta	nred) will not be accepted tes Patent and Trademark	u from anyone other than Office.	ıne applicant; a regi	stered at	torney or agent; or the	assignee or other party in
Authorized Signature	Authorized Signature Date						
Typed or printed name		Registration No.					
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APPLICATION NO.	FII	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/564,837	0	4/17/2006	Tomoko Hongo	8062-1034	3419	
466	7590	02/19/2010		EXAMINER		
YOUNG & THOMPSON				WANG, CHUN CHENG		
209 Madison Street				ART UNIT	PAPER NUMBER	
Suite 500 Alexandria, VA	22314			1796 DATE MAILED: 02/19/201	0	

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 373 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 373 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/564,837	HONGO ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Chun-Cheng Wang	1796				
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate come GHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due course				
2. $\square$ The allowed claim(s) is/are <u>6,34-36,38 and 54</u> .						
<ol> <li>Acknowledgment is made of a claim for foreign priority una)</li></ol>	been received. been received in Applica cuments have been receiv	tion No ed in this national stage application fro				
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm	ENT of this application. itted. Note the attached E.	XAMINER'S AMENDMENT or NOTICI				
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) hereto or 2 ho Paper No./Mail Date  (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  /Ling-Siu Choi/ Primary Examiner, Art Unit 1796	6.	· ·	Đ			

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#### **DETAILED ACTION**

1. This Office action is in response to the Amendment filed 12/28/2009. Claims 1-33, 37 and 39-53 have been cancelled. Claims 34-36, 38 and 54-64 are now pending.

### Allowable Subject Matter

- 2. Claims 34-36, 38 and 54-64 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The present claims are allowed over the closest references: Golden et al. (DE 19803891).

Gordon et al. disclose aqueous precious metal colloids intermediate for supported catalyst in the form of a sol with metal particles of 0.5-100 nm. The colloids can be obtained by reduction of a precious metal salt or complex dissolved in water by using an organic reducing agent in the presence of a water soluble polymer and optionally in the presence of multivalent anions (Abstract). Aqueous solution of H<sub>2</sub>PtCl<sub>6</sub> and water was mixed. In a second vessel polyvinylpyrrolidone and sodium citrate dihydrate in water was dissolved. The two solutions subsequently mixed and bottom reflux up to the boiling point (page 4, Example 1). However, Gordon et al. do not teach or fairly suggest the claimed colloid solution, method to produce and use the colloid solution, which comprises metal particles or metal compound particles being formed from one metal used in an integrity test for a virus removal membrane comprising: (1) from 0.0001 to 0.1 wt% of metal particles or metal compound particles being formed from one metal having an average particle diameter of 15-40 nm, (2) a water-soluble high molecular weight dispersant containing a pyrrolidone group, (3) water, and (4) an anionic surfactant and/or a chelating agent, wherein all of the metal particles or metal compound particles of the colloid solution are formed from said one metal have an average particle size diameter of 15-40 nm, and

the colloid solution has the following properties (a) and (b): (a) a maximum absorption wavelength after 180 days storage at room temperature and at a constant pH in a range from pH 4 to pH 11 which differs from the maximum absorption wavelength prior to storage by -2.0 nm to +2.0 nm, and (b) a maximum absorption wavelength after one year storage at 50°C and at pH 5 which differs from the maximum absorption wavelength prior to storage by -2.0 nm to +2.0 nm.

There is no prior art of record, alone or in combination teach or fairly suggest the claimed colloid solution, method to produce and use of the metal colloid solution.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chun-Cheng Wang whose telephone number is (571)270-5459. The examiner can normally be reached on Monday to Friday w/alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached on (571)272-1398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ling-Siu Choi/ Primary Examiner, Art Unit 1796 /Chun-Cheng Wang/ Examiner, Art Unit 1796

/CCW/